

Title (en)

Dynamic peaking aperture correction for use with a CCD camera.

Title (de)

Öffnungskorrektur mit dynamischer Verzerrung zur Benutzung mit einer CCD-Kamera.

Title (fr)

Correction d'ouverture à accentuation dynamique pour usage dans une caméra CCD.

Publication

**EP 0563846 A1 19931006**

Application

**EP 93105151 A 19930329**

Priority

US 85992892 A 19920330

Abstract (en)

An apparatus is disclosed for processing the output signals of a charge transfer device having at least one row of photoelectric elements. The charge transfer device produces output signals with charge levels that are provided to a shift register having a plurality of elements. The successive charge levels from each photoelectric element are provided to respective shift register elements, and the charge levels are transferred within the shift register to a readout terminal. A sample and hold device removes sampling artifacts inherent in the signal provided by the CCD, to produce a signal representing successive image pixel values. A peaking filter emphasizes high frequency components relative to low frequency components, to compensate for low pass filtering effects which may occur in the CCD. <IMAGE>

IPC 1-7

**H01L 29/796**; **H04N 3/15**; **H04N 5/217**

IPC 8 full level

**H04N 5/208** (2006.01); **H04N 5/359** (2011.01); **H04N 5/372** (2011.01)

CPC (source: EP US)

**H04N 25/626** (2023.01 - EP US); **H04N 25/71** (2023.01 - EP US)

Citation (search report)

- [Y] GB 2186146 A 19870805 - SECR DEFENCE
- [Y] EP 0283070 A1 19880921 - PHILIPS NV [NL]
- [Y] PATENT ABSTRACTS OF JAPAN vol. 6, no. 42 (E-98)(920) 16 March 1982 & JP-A-56 160 069 ( SONY K.K. ) 9 December 1981
- [A] FERNSEH UND KINO TECHNIK vol. 42, no. 9, September 1988, BERLIN DE pages 423 - 428 PRICE ET AL. 'CCD-Kameras für professionelle Anwendungen'
- [A] IEEE TRANSACTIONS ON CONSUMER ELECTRONICS vol. 36, no. 2, May 1990, NEW YORK US pages 137 - 141 KAUFMAN ET AL. '2-D ANALOG FILTERS FOR REAL TIME VIDEO SIGNAL PROCESSING'

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DE FR GB NL

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